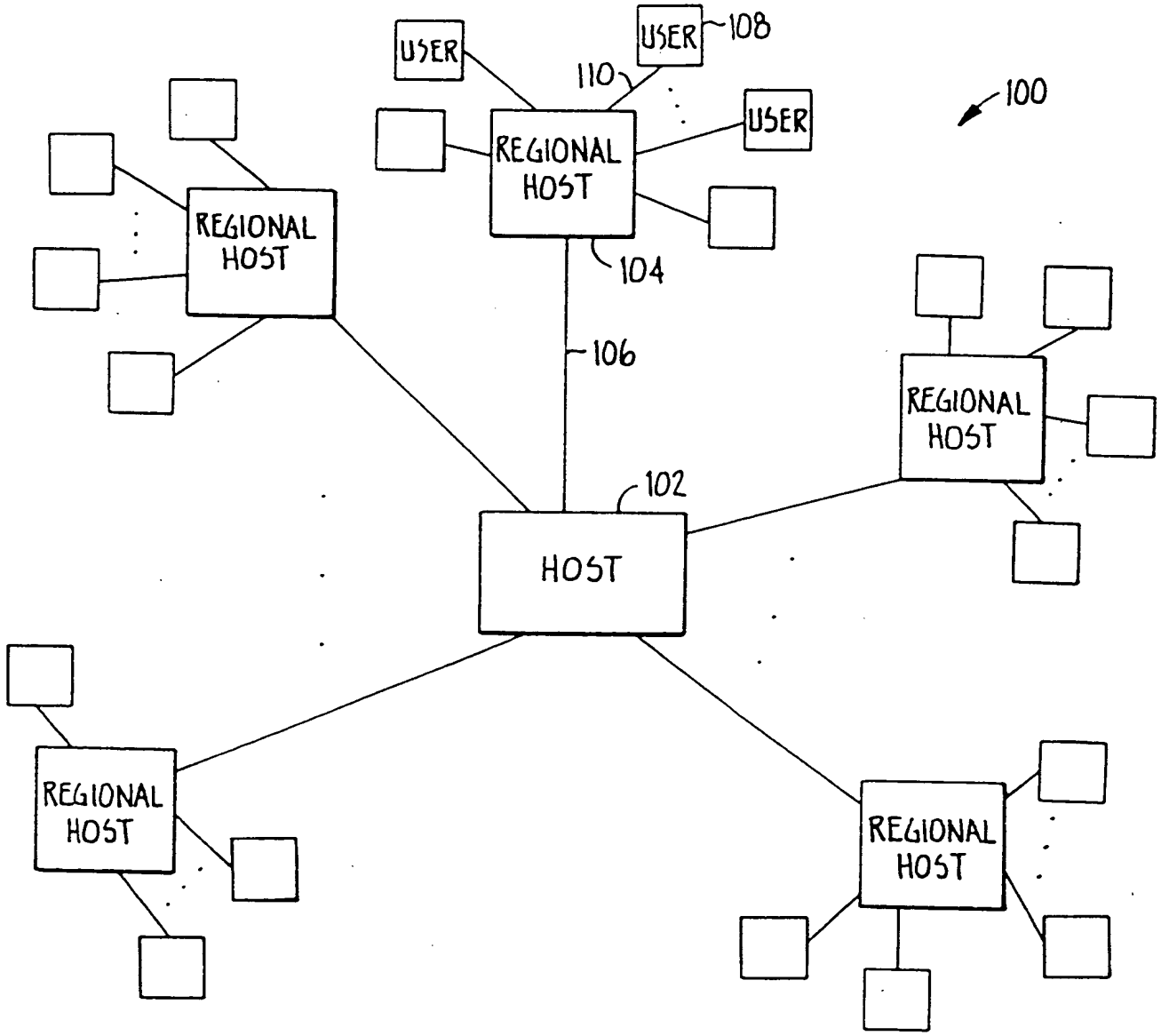
USER
USER
108
110
USER
100
REGIONAL HOST
REGIONAL HOST
104
106
REGIONAL HOST
102
HOST
REGIONAL HOST
REGIONAL HOST

FIG. 1.

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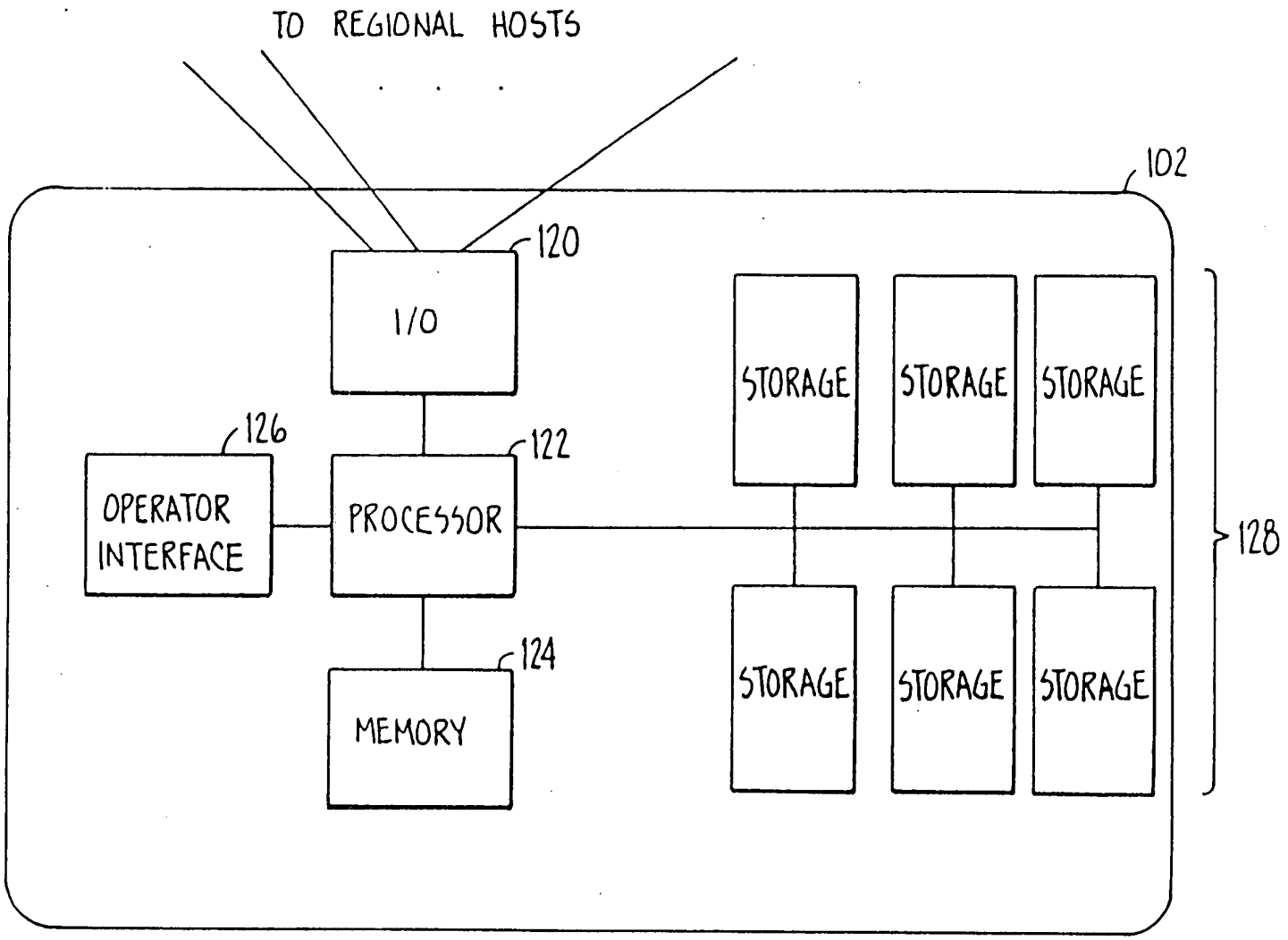

FIG. 2.

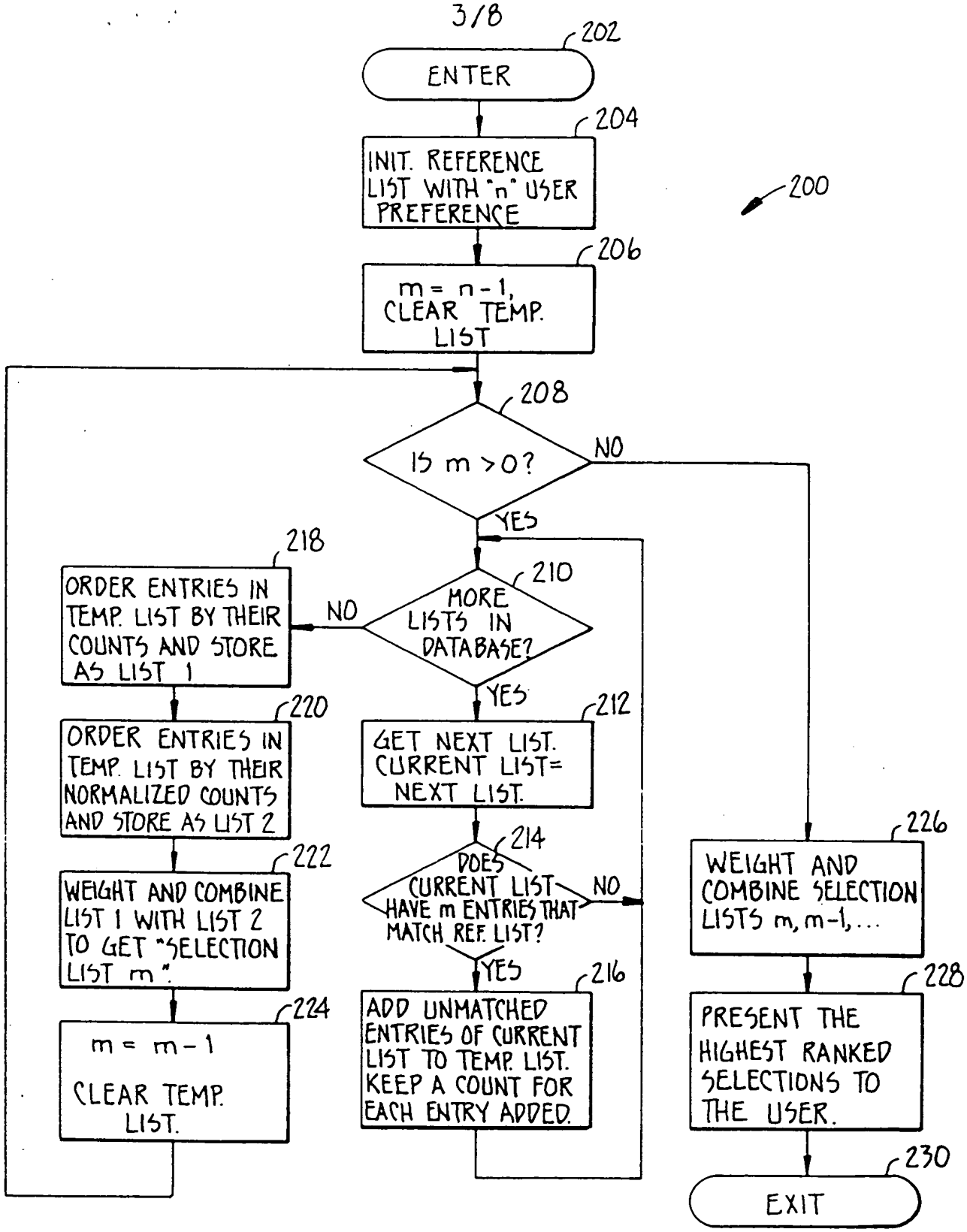
202
ENTER
204
INIT. REFERENCE LIST WITH "n" USER PREFERENCE
200
206
m = n - 1, CLEAR TEMP. LIST
208
IS m > 0?
NO
YES
218
ORDER ENTRIES IN TEMP. LIST BY THEIR COUNTS AND STORE AS LIST 1
210
MORE LISTS IN DATABASE?
NO
YES
220
ORDER ENTRIES IN TEMP. LIST BY THEIR NORMALIZED COUNTS AND STORE AS LIST 2
212
GET NEXT LIST. CURRENT LIST= NEXT LIST.
222
WEIGHT AND COMBINE LIST 1 WITH LIST 2 TO GET "SELECTION LIST m".
214
DOES CURRENT LIST HAVE m ENTRIES THAT MATCH REF. LIST?
NO
YES
224
m = m - 1
CLEAR TEMP. LIST.
216
ADD UNMATCHED ENTRIES OF CURRENT LIST TO TEMP. LIST. KEEP A COUNT FOR EACH ENTRY ADDED.
226
WEIGHT AND COMBINE SELECTION LISTS m, m-1, ...
228
PRESENT THE HIGHEST RANKED SELECTIONS TO THE USER.
230
EXIT

FIG. 3.

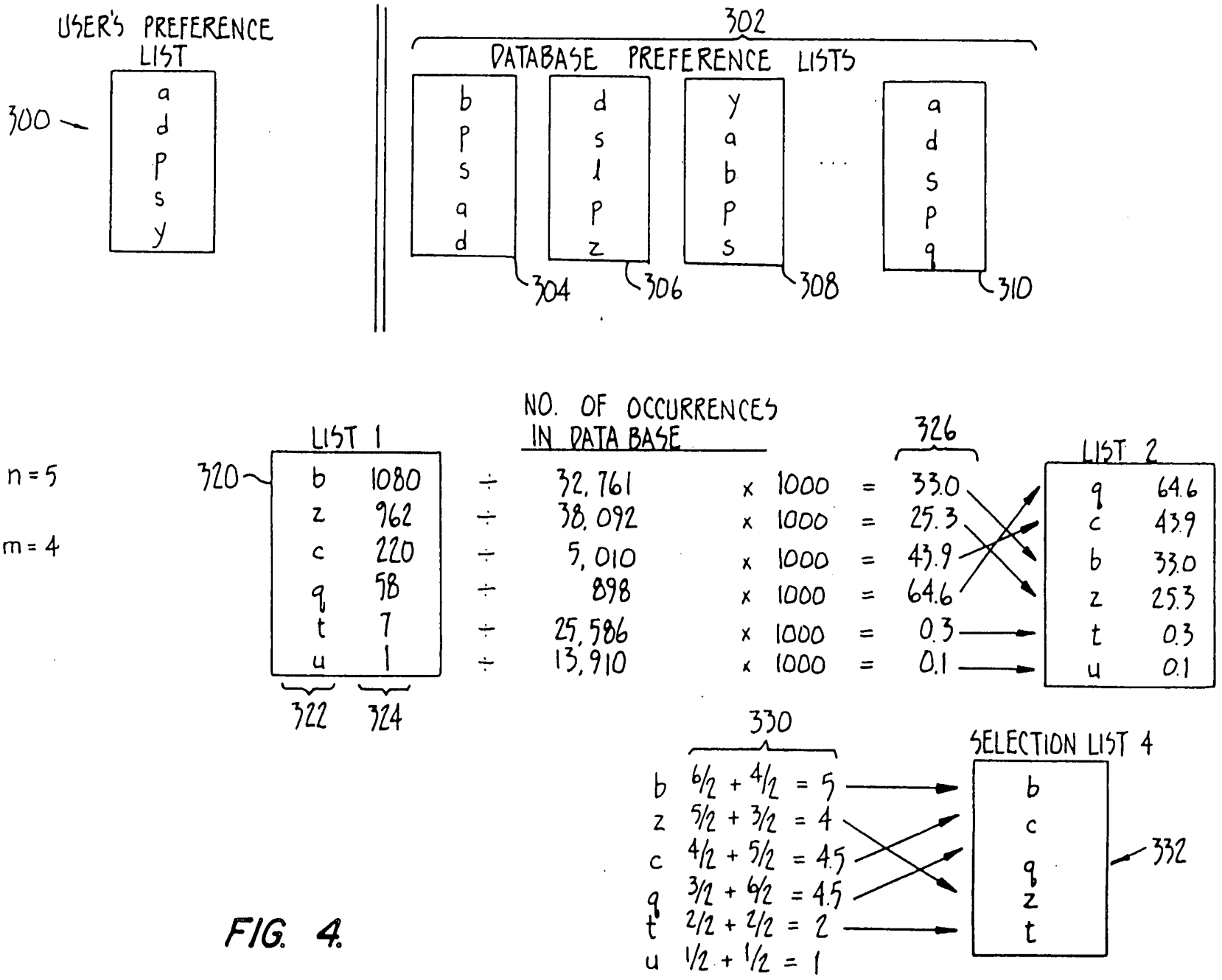
USER'S PREFERENCE LIST
300
a
d
P
s
y
302
DATABASE PREFERENCE LISTS
b P s a d
304
d s l P z
306
y a b P s
308
a d s P q
310
n = 5
m = 4
LIST 1
320
b 1080
z 962
c 220
q 58
t 7
u 1
322
324
NO. OF OCCURRENCES IN DATA BASE
32,761
38,092
5,010
898
25,586
13,910
÷
x 1000 =
326
33.0
25.3
43.9
64.6
0.3
0.1
LIST 2
q 64.6
c 43.9
b 33.0
z 25.3
t 0.3
u 0.1
330
b 6/2 + 4/2 = 5
z 5/2 + 3/2 = 4
c 4/2 + 5/2 = 4.5
q 3/2 + 6/2 = 4.5
t 2/2 + 2/2 = 2
u 1/2 + 1/2 = 1
SELECTION LIST 4
b
c
q
z
t
332

FIG. 4.

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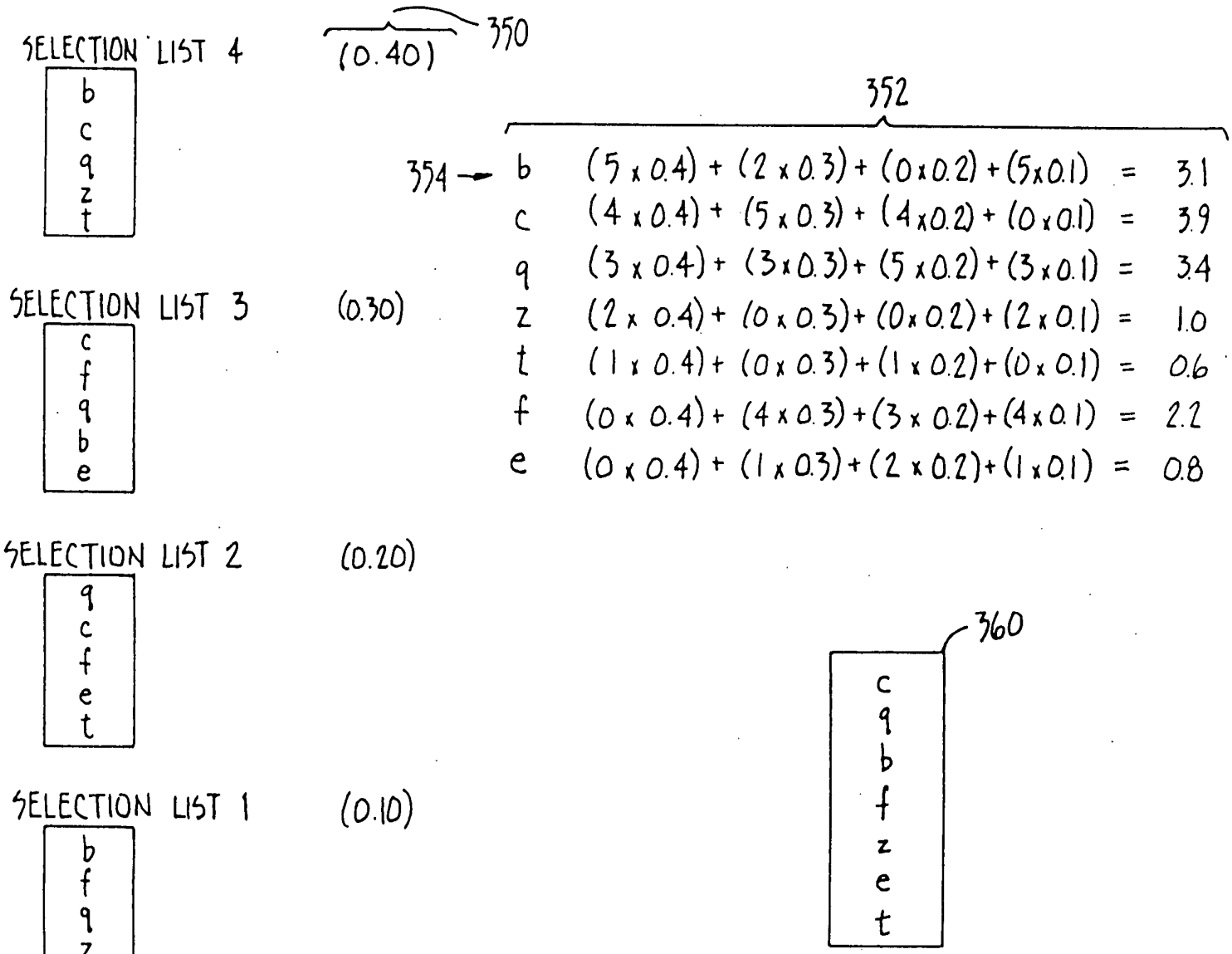

FIG. 5.

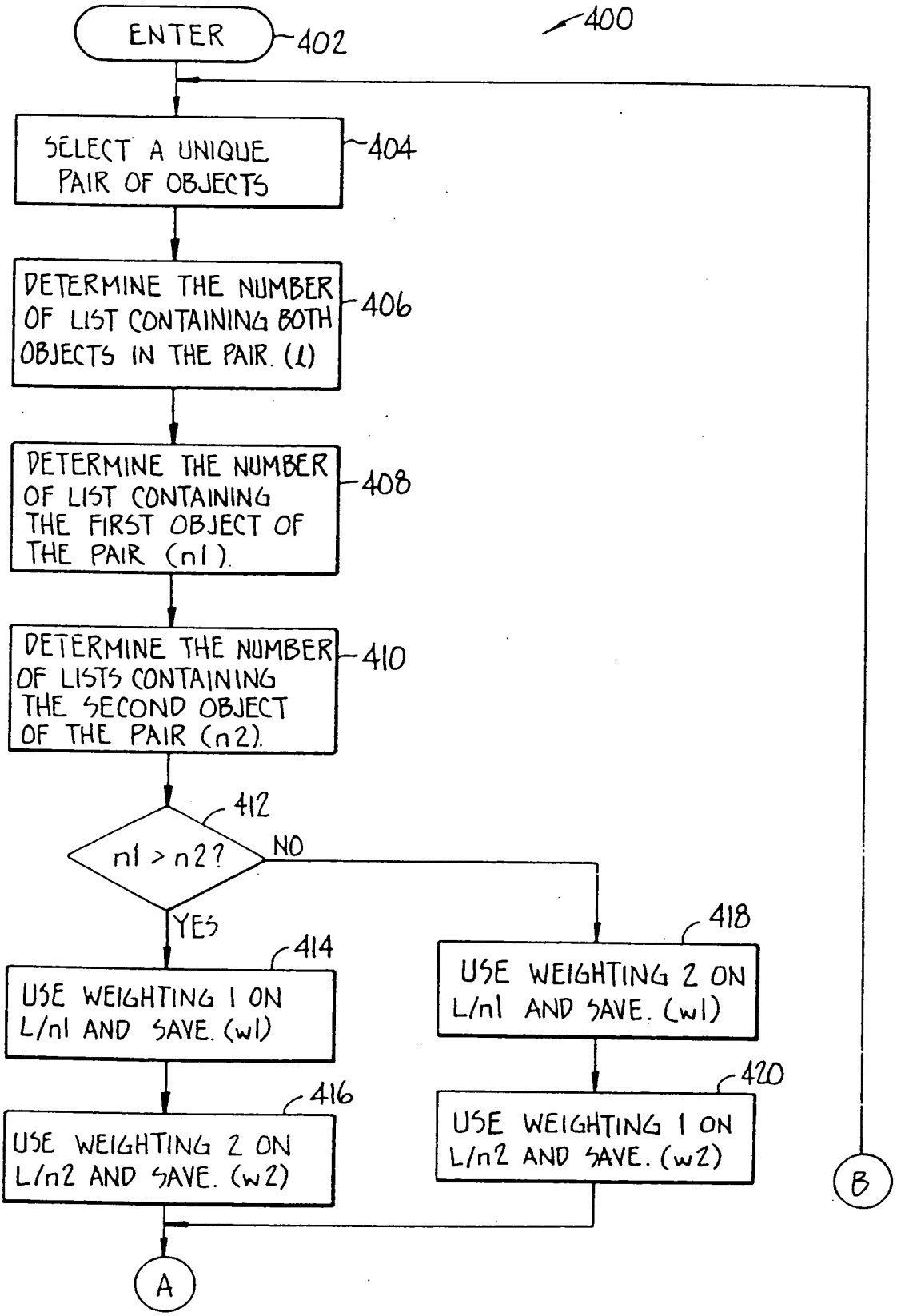
400
ENTER
402
SELECT A UNIQUE PAIR OF OBJECTS
404
DETERMINE THE NUMBER OF LIST CONTAINING BOTH OBJECTS IN THE PAIR. (l)
406
DETERMINE THE NUMBER OF LIST CONTAINING THE FIRST OBJECT OF THE PAIR (n1).
408
DETERMINE THE NUMBER OF LISTS CONTAINING THE SECOND OBJECT OF THE PAIR (n2).
410
412
n1 > n2?
NO
YES
414
USE WEIGHTING 1 ON L/n1 AND SAVE. (w1)
416
USE WEIGHTING 2 ON L/n2 AND SAVE. (w2)
418
USE WEIGHTING 2 ON L/n1 AND SAVE. (w1)
420
USE WEIGHTING 1 ON L/n2 AND SAVE. (w2)
A
B

FIG. 6A.

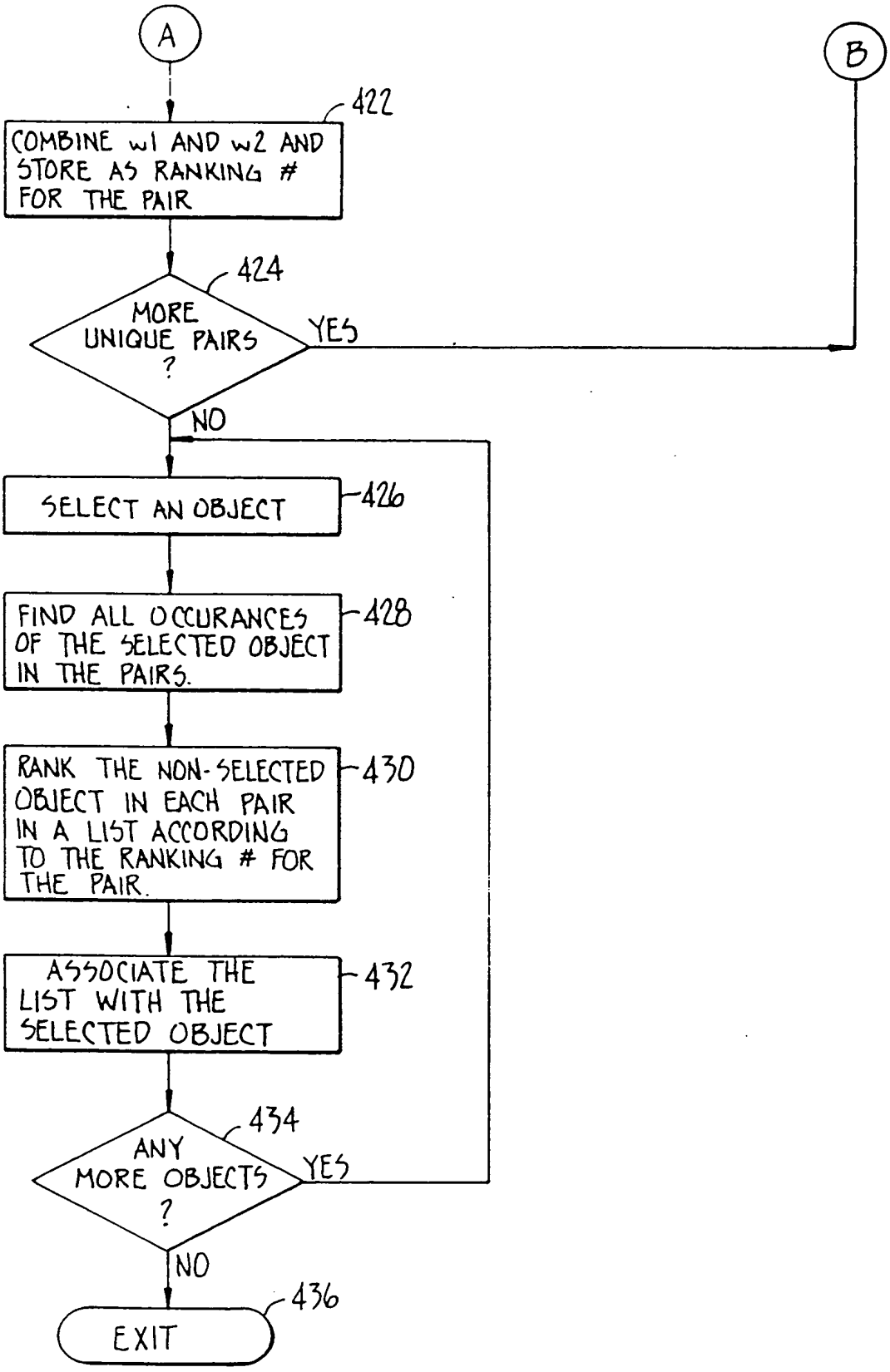
A
B
422
COMBINE w1 AND w2 AND STORE AS RANKING # FOR THE PAIR
424
MORE UNIQUE PAIRS ?
YES
NO
426
SELECT AN OBJECT
428
FIND ALL OCCURANCES OF THE SELECTED OBJECT IN THE PAIRS.
430
RANK THE NON-SELECTED OBJECT IN EACH PAIR IN A LIST ACCORDING TO THE RANKING # FOR THE PAIR.
432
ASSOCIATE THE LIST WITH THE SELECTED OBJECT
434
ANY MORE OBJECTS ?
YES
NO
436
EXIT

FIG. 6B.

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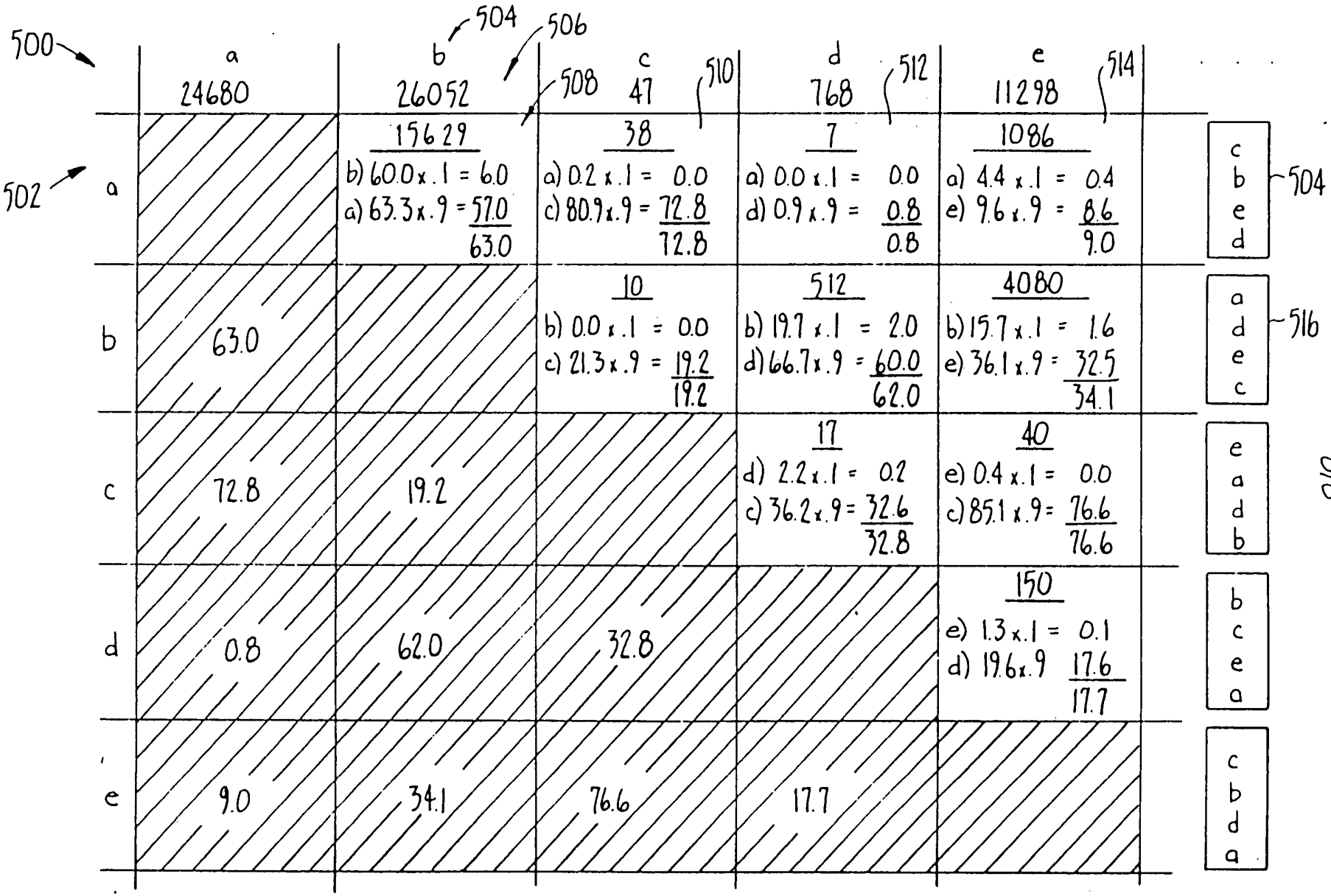

FIG. 7.